

A4
19. The polypeptide of claim 17, wherein said polypeptide comprises a bovine TNF-RI extracellular domain or fragments thereof.

A5
29. A purified bovine TNF-RI polypeptide that binds TNF, wherein said polypeptide is encoded by a nucleic acid selected from the group consisting of:

- (a) the nucleotide sequence of SEQ ID NO.:1;
- (b) a fragment of the nucleotide sequence of (a); and
- (c) a nucleotide sequence that is at least 85% identical to (a) or (b).

30. A purified soluble bovine TNF-RI polypeptide that binds TNF, wherein said polypeptide is encoded by a nucleic acid selected from the group consisting of:

- (a) the nucleotide sequence of SEQ ID NO.:3,
- (b) a fragment of the nucleotide sequence of (a); and
- (c) a nucleotide sequence that is at least 85% identical to (a) or (b).

31. The polypeptide of claim 30, wherein said polypeptide comprises a bovine TNF-RI extracellular domain or fragments thereof.

32. A purified bovine TNF-RI, wherein said polypeptide is selected from the group consisting of:

- (a) the polypeptide of SEQ ID NO:2; and
- (b) a fragment of the polypeptide of (a) that binds TNF.

33. A purified soluble bovine TNF-RI, wherein said polypeptide is selected from the group consisting of:

- (a) the polypeptide of SEQ ID NO:4; and
- (b) a fragment of the polypeptide of (a) that binds TNF.

34. The polypeptide of claim 33, wherein said polypeptide comprises a bovine TNF-RI extracellular domain or fragments thereof.